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**Advancing the physical intelligence and performance of roBOTs
towards human-like bi-manual objects MANipulation**

D8.2. MANiBOT Web Portal

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2	ARISTOTELIO PANEPISTIMIO THESSALONIKIS	AUTH	GR
3	TECHNISCHE UNIVERSITAT DARMSTADT	TUDa	DE
4	SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO S ANNA	SSSA	IT
5	UNIVERSIDAD DE BURGOS	UBU	ES
6	TECHNISCHE UNIVERSITAET WIEN	TUW	AT
7	TWI ELLAS ASTIKI MI KERDOSKOPIKI ETAIREIA	THL	GR
8	CENTRALNY INSTYTUT OCHRONY PRACY - PANSTWOWY INSTYTUT BADAWCZY	CIOP	PL
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11	SCHWARZ DIGITAL GMBH & CO. KG	SDI	DE
12	DIAMANTIS MASOUTIS AE SUPER MARKET	MASOUTIS	GR
13	UNIVERSITY OF BRISTOL	UoB	UK

Document Authors

Partner	Author
THL	Laura Jones, George Bonias

Document History

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0.1	06/03/2024	Draft	Table of Contents
0.2	19/03/2024	Draft	First draft
0.3	02/04/2024	Draft	Revised draft following feedback from partners. The main revisions are writing the executive summary, adding detail to the relation to other deliverables and tasks, adding information to security and optimisation.
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1.0	30/04/2024	Final	Final version ready for submission

Definitions, Acronyms and Abbreviations

Acronyms and Abbreviations	Description
D	Deliverable
DIHs	Digital Innovation Hubs
FAQ	Frequently Asked Questions
GDPR	General Data Protection Regulation
KER	Key Exploitable Result
KPI	Key Performance Indicator
SEO	Search Engine Optimisation
WP	Work Package

Executive Summary

In this deliverable, delivered in Month 6, the MANiBOT Web Portal, also referred to as the website, and its related activities are outlined and explained. The deliverable explains the development and optimisation of the website and its content, as well as security and maintenance. Furthermore, the Deliverable explains the purpose of the website, its objectives, KPIs and procedures for monitoring progress towards achieving its success values. The deliverable explains the target audiences for the website's content and how they will be reached, along with the channels used to promote the website and content. Finally, the document gives an overview of the website's layout and content, with explanations of the functions of the various sections and pages.

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1 Introduction

1.1 Scope of the deliverable

The present deliverable D8.2 "MANiBOT Portal" was prepared in the frame of Task 8.1 Dissemination Plan and Communication Material (Task leader: THL). The document describes and explains the purpose, structure, and development of the project website, as well as the site's KPIs and the strategy to achieve them and promote the site. The document uses the descriptions of the activities and tasks as outlined in the Grant Agreement as a basis for the development of its content.

1.2 Relation to other Activities and Deliverables

The D8.2 deliverable is part of WP8 "Dissemination and Exploitation", active throughout the duration of the MANiBOT project.

It is linked to the following tasks:

- Task 8.1 Dissemination Plan and Communication Material includes Deliverable D8.1 Dissemination and Communication Plan produced in Month 6, which sets the website in the broader context of the dissemination and communication strategy; and its iterations: Deliverable D8.6 Dissemination and Communication Plan v2 in Month 24 and Deliverable D8.7 Dissemination and Communication Plan v3 in Month 42. They will update the plan, taking into account the progress of the project, adapting the activities where relevant, including those related to the website.
- Task 8.2 Dissemination and Communication Activities. This task covers the website creation and updating during the project as well as the coordination of and ongoing use of social media, the engagement in external events, the organisation of events and the publication of results. This includes the production of Deliverable 8.3 Dissemination and Communication Activities Report v1 and D8.8 Dissemination and Communication Activities Report v2, in which the website-related activities and KPIs will also be reported on, including any additional functionalities and design that might have been added to the website.
- Task 8.5 Connection Framework for DIHs, Common Resources, Relevant Platforms and initiatives. This task identifies national, European, and international projects that are related to the work of MANiBOT and plans engagement to ensure synergies. These connections can also be used for communication and dissemination purposes.

1.3 Structure of the deliverable

The deliverable is structured as reported below:

Chapter 1 – Introduction – provides information on the scope and purpose of the deliverable, the relation to other tasks and deliverables and the structure of the deliverable.

Chapter 2 – Overview of the portal – provides information on the domain, the development, optimisation, compliance, security, and maintenance of the MANiBOT portal.

Chapter 3 – Objectives of the portal – gives an overview of the purpose, includes the objectives, indicators, monitoring, and evaluation.

Chapter 4 – Communication and dissemination strategy – outlines the approach to drawing traffic to the portal, the channels to be used, target audiences.

Chapter 5 – Website structure and content overview – includes a sitemap, and explanations of the sections.

Chapter 6 – Conclusions – gives an overview of the expected results of the Dissemination and Communication Plan.

2 Overview of the Portal

2.1 Domain

The website has been built in the **MANiBOT-project.eu** domain. This domain name has a common structure for EU projects, <name>-project.eu, thus facilitating people finding it.

2.2 Development

React (also known as React.js or ReactJS) is a prevalent, open-source JavaScript library for creating user interfaces and websites. React is used as a front-end JavaScript framework for the MANiBOT website. The choice of React is due to it being lightweight in terms of both file size and operation speed, making it an excellent choice for fast web applications and websites. The website has UK English as its standard language.

2.3 Optimisation

Search Engine Optimisation (SEO) techniques are implemented to gain extra visibility and help the website rank better in Google.

They include:

- Ensuring a mobile-friendly website (e.g. responsive, adjusting to different screen sizes).
- Internal links taking website visitors to other parts of the website with clear indications about the content of the link
- Links to external sites and channels.
- Optimising images (ensuring a web-friendly size, naming the image file in a way that describes the image)
- Promotion of the content through social media
- Identifying and using relevant keywords
- Using meta tags (HTML tags used to provide additional information about a page to search engines and other clients), which ensures relevant information shows up in search engine results, increasing its ranking

2.4 Compliance

A GDPR-compliant (General Data Protection Regulation) cookie policy has been arranged on the website. The data we request from the user is their email and name in the contact form. A platform for collecting analytics data [1] is also connected to the website. The user is informed of all this as soon as they enter the Website, with a disclaimer on the home page, informing about the use of cookies.

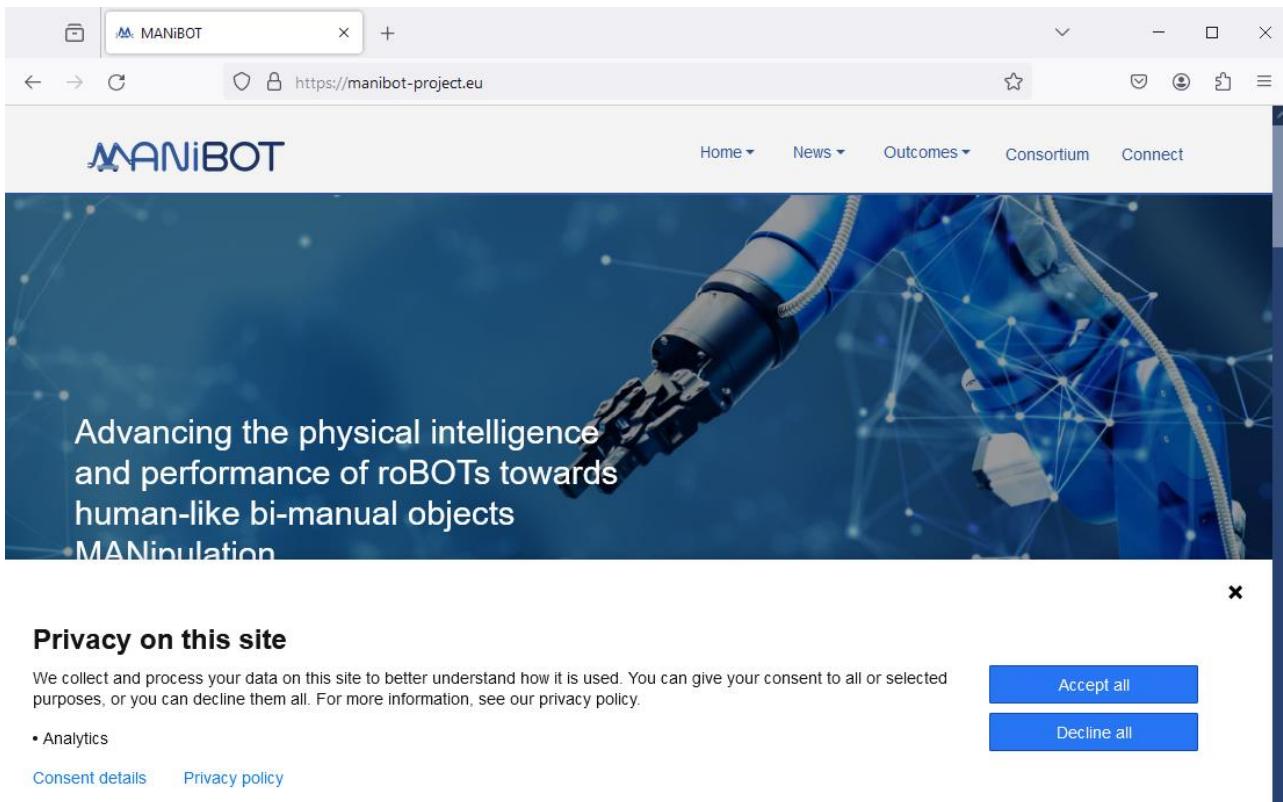


Figure 1 Home page disclaimer on cookie policy

2.5 Security and maintenance

The technical support and maintenance of the MANiBOT website has been THL's responsibility since its creation. New content will be uploaded there as well as technical and downtime issues will be prevented or resolved. The site is regularly updated and hosted with a reliable hosting provider. The code has been uploaded to a folder in a git repository. Whenever there are new changes for the website, they are made locally, they are checked, and at a second stage they are uploaded to git, which automatically creates a new build and the new version is pushed to the hosting platform. Code is also stored locally, acting as a backup to the website.

3 Objectives of the Portal

3.1 Overview of the purpose of the portal

The MANiBOT website includes the vital information about the context, objectives and innovations of the project, key facts and the consortium. It provides public access to non-IP-sensitive results and publications and features updates on the progress of our developments.

3.2 Objectives

The objectives of the website contribute to the project's overall communication and dissemination objectives:

- i) Create awareness, understanding, and interests about the scope, objectives, and results of the project
- ii) Address all the stakeholders of the project with specific and valuable knowledge and solutions
- iii) Engage the stakeholders and drive them to adopt and implement the project results

Specifically, the website aims to:

- provide an overview of the project's context, objectives and expected results
- provide a repository for MANiBOT's results and knowledge gained through the project
- host the latest results promptly and concisely
- showcase the project's updates and achievements
- promote events and other activities
- support the media and press in understanding the project (a press kit will be hosted on the site)
- explain the benefits of the project's results to the final users

3.3 Indicators

The following Key Performance Indicators (KPIs), from the Dissemination and Communication KPIs, relate to the Portal. The project communication and dissemination material, also known as promotional material, press releases and newsletters are accessible on the website. The videos are also featured there in news articles.

Table 1 Dissemination and Communication KPIs

D & C Activity	KPI	Success Value
Website	Web page visits per year	6,000-10,000 = good >10,000 = excellent
Communication and dissemination material	Material downloads	1,000-2,000 = good >2,000 = excellent
Press-media	Number of press releases	10-25= good >25 = excellent
Social media	Views of the project's videos	1,000-2,500 = good >2,500 = excellent
Newsletters	Mail-outs and downloads of newsletters (per release)	200-500 = good >500= excellent

3.4 Monitoring and evaluation

Regular monitoring and evaluation of the statistics will assist the project consortium to measure the impact of their collective efforts. Any risks to achieving the success values can be identified, and if necessary, corrective actions can be taken.

Website statistics are gathered monthly, with the statistics gathered by piwik PRO analytics tool [1], a flexible analytics suite that ensures user privacy every step of the way. Visitors, sessions, page views and the channels through which people access the site are monitored. Reports on the Dissemination and Communication KPIs are given in the WP8 meetings on a quarterly basis.

4 Portal dissemination and communication strategy

4.1 Target audiences

In terms of the information on the website targeted at different groups, the homepage information and promotion of public events aim to be relevant for all the target groups below, i.e. commercial, scientific, public bodies and policy makers and the general public

Key content targeted at the following target groups is as below.

1. Commercial; Companies in need of diverse object handling: news articles on key developments and final project outcomes.
2. Scientific; Researchers and robotics technology providers: publications in journals and conference proceedings.
3. General public and Press: the press kit with key facts about the project, frequently asked questions, and information that is easy to use in articles, blog posts, informative visuals (see sub-chapter 4.3), news articles.
4. Public Bodies, Policy makers, Organizations and Facilitators: FAQ (which was produced as part of the press kit – see D8.1 for more information), visuals, final MANiBOT report and policy recommendations.

4.2 Channels

As the website is the communication channel where all the public information about the project and its publications can be found, and in order to achieve its KPIs, the other communication channels will be used to bring traffic to it.

Social media will highlight all additions to the website; news, press releases, results etc., linking to the relevant webpage. Social media posts and newsletter texts will not feature all the content, but “teaser” texts that encourage readers to click through to the site for the main content.

Engagement with the content will be possible via social media, such as commenting on posts.

4.3 Content creation

The website will feature as much content as possible, to attract as many visitors as possible. News articles will be written, for example, about published results and public deliverables, project events and participation of the consortium or consortium members in external events.

In addition to content generated directly by the project, a blog will be started in M7, which will feature bi-monthly blog posts from various task leaders, highlighting different key research areas of the project, to be decided by the representatives in the WP8 group. In the months in between the blog posts, a visual will be developed highlighting elements of the previous month’s blog post, which will be featured in a separate article as well as promoted on social media.

5 Website structure and content overview

5.1 Sitemap

The figure below gives an overview of the structure of the website.

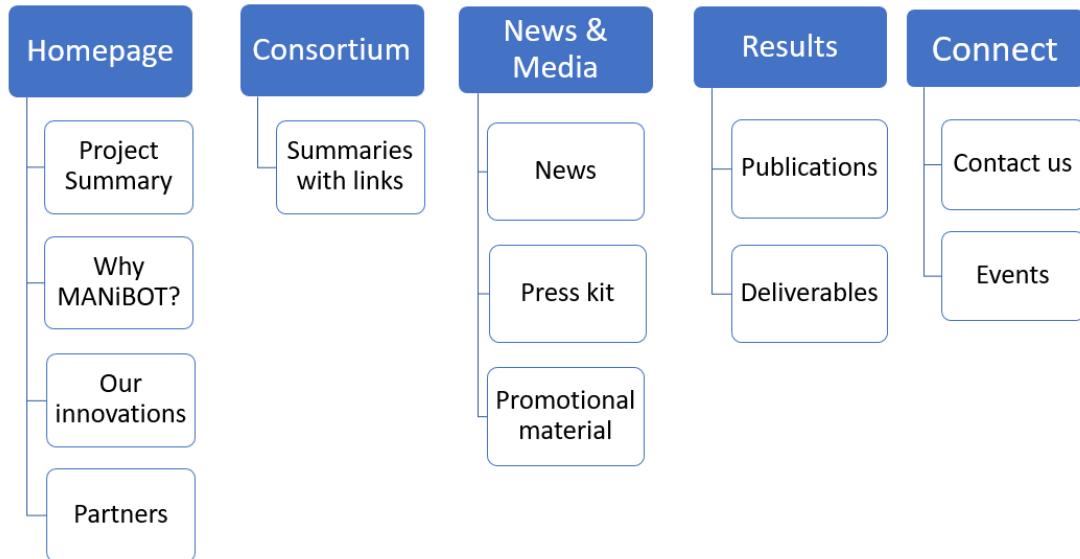


Figure 2 MANiBOT Web Portal sitemap

5.2 Home page

The homepage features:

1. A concise summary of the project, a summary of the context and background of the project (Why MANiBOT?) and the main innovations to be developed.
2. A carousel showing the partner logos and linking to the consortium webpage
3. Key facts about the project and links to social media
4. EU funding acknowledgement

A link to the FAQ will be added to the homepage once that text has been finalized in M7.

Advancing the physical intelligence and performance of roBOTs towards human-like bi-manual objects
MANipulation

Pioneering Bimanual Mobile Robots for Challenging Work Environments

Project Summary

MANiBOT aims to empower bi-manual, mobile, service robots with superior physical capabilities able to perform a wide variety of manipulation tasks, with highly diverse objects, in a human-like manner and performance, in diverse, challenging environments.

The project seeks to revolutionise the robotics landscape by enhancing robot's handling skills, including simple grasping, pick-and-place operations, bi-manual and non-prehensile manipulation, and ensuring adaptive responses to changing environments or to the properties of objects.

To achieve these capabilities, innovations will be developed in the fields of advanced environment understanding, efficient manipulation techniques, robot cognitive functions and physical intelligence. The researchers will implement their solutions with a focus on baggage handling and supermarket shelves' restocking, with piloting of robots in relevant environments.

Why MANiBOT?

Despite advances in robotic perception, understanding and control, collaborative service robots still demonstrate limited physical performance compared to that of humans. This is particularly the case when it comes to the sought-after capability of safe and efficient robot-environment interaction with diverse object manipulation in real, human-populated spaces. Because of this, the uptake of such robots in key sectors is still limited compared to their vast potential uses.

Industrial-grade robots demonstrate a high physical performance with fast, dexterous and robust object handling, resembling that of humans or beyond, but only in the context of handling well-known, modelled objects, in controlled environments.




Empowering service robots with advanced physical functionalities, capabilities, and efficiency that can allow them to achieve a wide variety of manipulation tasks in real-world environments, in a bi-manual, human-like manner and performance remains an open challenge and needs major advances on a series of interdisciplinary research topics.

Once achieved, these advances will boost these robots' usage and their impact in new, major sectors of industry and services, from logistics, transport and retail, to agri-food, healthcare, and manufacturing unlocking their true potential.

Our Innovations

MANiBOT researchers will advance and bring together technologies ranging from multimodal perception, cognition and control to novel cognitive mechatronics. The project will develop:

- New environment understanding and object/pose recognition methods**, empowered through an adaptive, context-aware fusion of vision, proximity and tactile sensing. This will allow fast and effective manipulation, even of unknown objects, in environments with a human presence.
- A novel suite of manipulation primitives** including non-prehensile manipulations. This will allow the transfer of diverse objects with various sizes, weights, shapes, materials and rigidities from a mobile robot, even within significant spatial constraints.
- Innovative cognitive mechatronics**, fusing advanced tactile and proximity sensors with the bi-manual mobile manipulator. Energy efficiency and autonomy will be optimized, including HRI capabilities for trustworthy and efficient operation.
- A new approach for robot cognitive functions**, based on multi-level robot cycles that allow learning, composing and swiftly adapting robot behaviours. This will enable complex manipulations, covering key topics of sequential manipulation of multiple objects, to achieve complex goals.

Partners






MANiBOT

MANiBOT Facts

Starting date: 1st November 2023
Duration: 42 months
Coordinator: CERTH
Consortium: 13 partners from 7 European countries
More MANiBOT info at [CORDIS](#)

FOLLOW US

[in](#) [X](#) [yt](#)

 This project has received funding from the European Union's Horizon Europe programme under Grant Agreement No 101120823.

Figure 3 Screenshots of MANiBOT home page

5.3 News

The News section hosts articles and newsletters under News. Under the Press Kit section, visitors will find press releases, descriptions of the project to be used for different requirements, a presentation created in PowerPoint, facts about the project, and frequently asked questions for the press and general public. The Kit will be developed in M7. The promotional material can also be found on this webpage.

News

MANiBOT debuts at online showcase event
01/03/2024

On February 22nd MANiBOT had its public debut at an online event co-organised by Adra - AI-Data-Robotics-Association,

[Read More](#)

Online Event Co-organised by European Commission | **Adra-e** | A Data & Robotics Association | **AI on**

Launch Event: showcasing the future of innovation in AI, Data & Robotics

2 February 2024
10:00 - 14:00 (CET)

[REGISTER NOW](#)



MANiBOT project commences journey to revolutionise mobile robots
27/02/2024

The MANiBOT project, a pioneering initiative aimed at empowering bimodal mobile robots for challenging manipulation tasks, was launched in Thessaloniki, Greece, on November 14-15, 2023.

[Read More](#)

Press Kit

PRESS RELEASE

Newly launched pioneering project promises a step change in bi-manual mobile robots
27/12/2023

The EU-funded MANiBOT project, aiming to empower service robots with superior physical capabilities, was launched at the Centre for Research and Technology Hellas (CERTH) in Thessaloniki, Greece, in late 2023.

[Read More](#)

Promotional Material



[Download MANiBOT Leaflet](#)



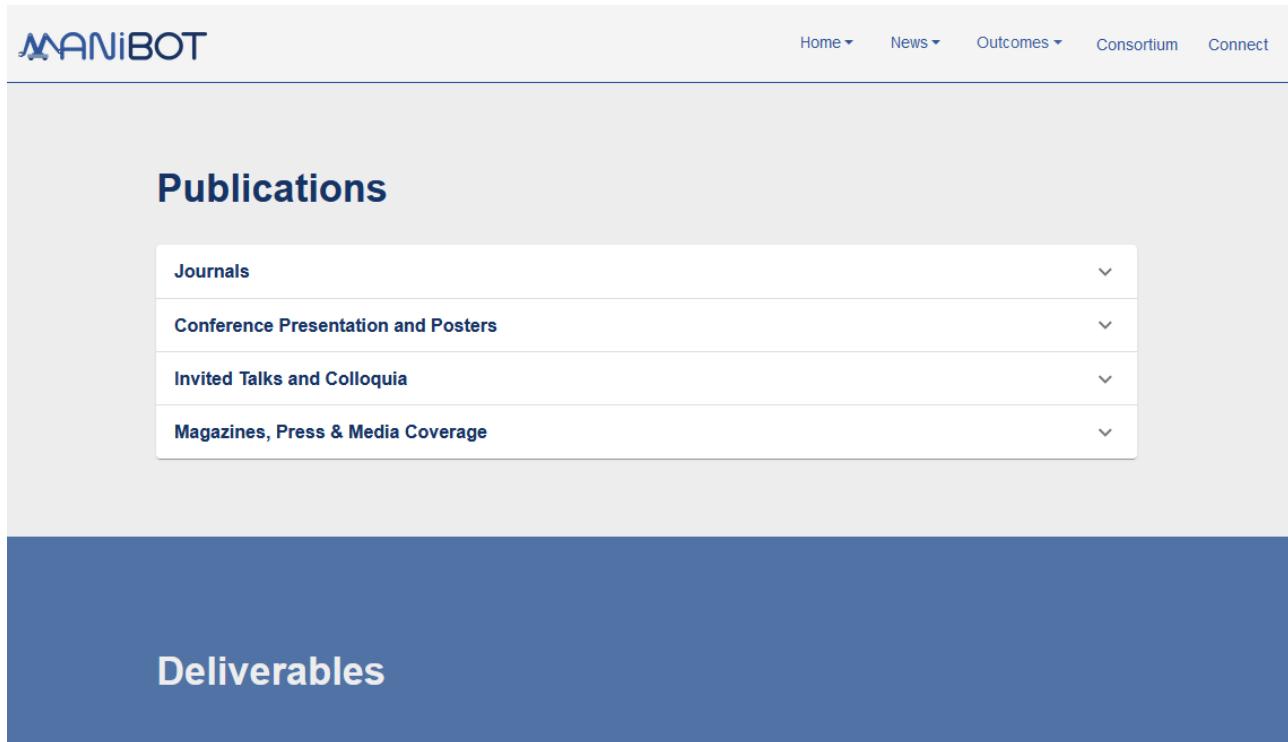
[Download MANiBOT Poster](#)

Figure 4 Screenshots of MANiBOT News section

5.4 Outcomes

The (project) Outcomes page features:

1. Publications in journals (linked to Zenodo) and conference proceedings.
2. Texts from invited talks and colloquia.
3. Coverage of the project in external news outlets; e.g. in the press, or magazine articles (not written by partners).
4. The public deliverables.



The screenshot shows the 'Outcomes' section of the MANiBOT website. At the top, there is a navigation bar with links for Home, News, Outcomes (which is currently selected), Consortium, and Connect. Below the navigation, the title 'Publications' is displayed in a large, bold, dark blue font. Underneath the title is a white box containing four categories: 'Journals', 'Conference Presentation and Posters', 'Invited Talks and Colloquia', and 'Magazines, Press & Media Coverage', each with a small downward arrow icon to the right. Below this white box is a large, solid blue rectangular area with the word 'Deliverables' written in white. The overall layout is clean and modern, using a dark blue color scheme for the header and a white background for the content area.

Figure 5 Screenshot of MANiBOT Outcomes page

5.5 Consortium

The consortium webpage features descriptions of each of the partners, with their logos and links to their websites.

MANiBOT

Home · News · Outcomes · Consortium · Contact

Consortium

CERTH  **Information Technologies Institute** 

The Centre for Research and Technology Hellas was founded in March 2000. It is a legal entity governed by private law with non-profit status, supervised by the General Secretariat for Research and Innovation (GSRI) of the Greek Ministry of Development. CERTH suggests one of the most important Research Centers in Greece with a main mission: The promotion of innovative research for the benefit of society. Dedicated to this purpose, CERTH lies at the forefront of basic, applied and technological research to provide solutions to society's modern challenges.

Information Technologies Institute (ITI) was founded in 1995 as a non-profit organization under the auspices of the General Secretariat of Research and Technology of Greece, with its head office located in Thessaloniki, Greece. Since 10.3.2000 it is a founding member of the Centre of Research and Technology Hellas (CERTH), also supervised by the Greek Secretariat of Research and Technology. ITI is one of the leading institutions of Greece in the fields of Informatics, Telematics and Telecommunications.

Since 1998 ITI has participated in a great number of Research and Development projects funded by European, Public Investment funds and Services contracted by firms and other private legal entities. ITI's research teams show their remarkable scientific work through a number of publications that includes scientific publications in International Journals, publications in conferences, books and book chapters. ITI was evaluated by external Expert Committees in the area of Engineering. In 2002, 2005 and 2014 and received a grade of 9.65/10, 4.4/5 and 4.51/5, respectively.

The Institute has the Infrastructure, the experience and the maturity to intensify its efforts on diffusing its research activities to key stakeholders and using all the necessary mechanisms and tools towards efficiently bringing novel or improved services and products to them through the Institute's established spin offs. Specifically some actions have been made in the recent years through ITI's collaborations with numerous Institutions in Greece and abroad as well as the founding of 7 new spin-offs.

TU Wien 

The TU Wien is Austria's largest research and educational institution in the field of technology and natural sciences. More than 4,000 scientists are researching "technology for people" in five main research areas at eight faculties. The content of the studies offered is derived from the excellent research. More than 26,000 students in 62 degree programmes benefit from this. As a driver of innovation, TU Wien strengthens the business location, facilitates cooperation and contributes to the prosperity of society.

Automation and Control Institute (ACIN) belongs to the Faculty of Electrical Engineering and Information Technology, TU Wien. With more than 70 employees, our Institute does basic research, solves challenging practical problems in a number of cooperative projects with industry, develops innovations, and gives the students a profound research-oriented teaching in systems theory, automation and control. The Institute is divided into the research areas advanced mechatronic systems and complex dynamical systems.

Fraport 

Fraport Greece is a leading airport operator and management company with a strong presence in Greece. Established in 2017, the company is a joint venture of Fraport AG Frankfurt Airport Services Worldwide, Copelouzos Group and Marguerite (the 2020 European Fund for Energy, Climate Change and Infrastructure). Its primary focus is

University of BRISTOL 

The University of Bristol is at the cutting edge of global research. We have made innovations in areas ranging from cot death prevention to nanotechnology. The University has had a reputation for innovation since its founding in 1876. Our research tackles some of the world's most pressing issues in areas as diverse as infection and immunity, robotics and automation, climate change, and cryptography and information security. Bristol is one of the most popular and successful universities in the UK, ranked 55th in the world in the QS World University Rankings 2024. Bristol Robotics Laboratory (BRL) is the most comprehensive academic centre for multi-disciplinary robotics research in the UK. It is home to a vibrant community of over 450 academics, researchers and industry practitioners. Together, they are world leaders in current thinking on service robotics, intelligent autonomous systems and bio-engineering. An internationally recognised Centre of Excellence in Robotics, BRL's state-of-the-art facilities cover an area of over 4,600 sq. metres (50,000 sq. feet). The Laboratory is currently involved in interdisciplinary research projects addressing key areas of robot capabilities and applications including: smart automation, human-robot interaction, bio-energy and self-sustainable systems, biomimetic tactile sensors and haptic feedback systems, unmanned aerial vehicles, swarming behaviour, assisted living technologies, non-linear control, medical and rehabilitation robotics, robot safety and soft robotics.

Sant'Anna School of Advanced Studies 

Advanced education, frontier research and innovation: this is The BioRobotics Institute of Sant'Anna School of Advanced Studies, founded in 2011. With time the Institute has built a wealth of knowledge and expertise in several fields of biorobotics and bionics, such as medical robotics, wearable technologies, collaborative robotics, bioinspired robotics, neuroscience robotics, rehabilitation robotics and implantable technologies. The Institute promotes the internationalization of didactics and scientific research through collaboration with the most prestigious international knowledge centers.

At The BioRobotics Institute we exploit new paradigms of collaborative and wearable technologies within a wide spectrum of application scenarios, such as in designing new collaborative robots for medical/industrial applications, or in designing novel devices and sensing technologies to improve workplaces ergonomics by reducing the burden of workers in strenuous repetitive tasks.

In our labs, we design, develop and validate novel devices for assisting, rehabilitating, or augmenting human motor functions, new industrial and medical robots for collaborating fluently with humans, tactile sensors to facilitate safe human-machine co-work, robots for assistance, healthcare, agriculture, logistics, and manufacturing.

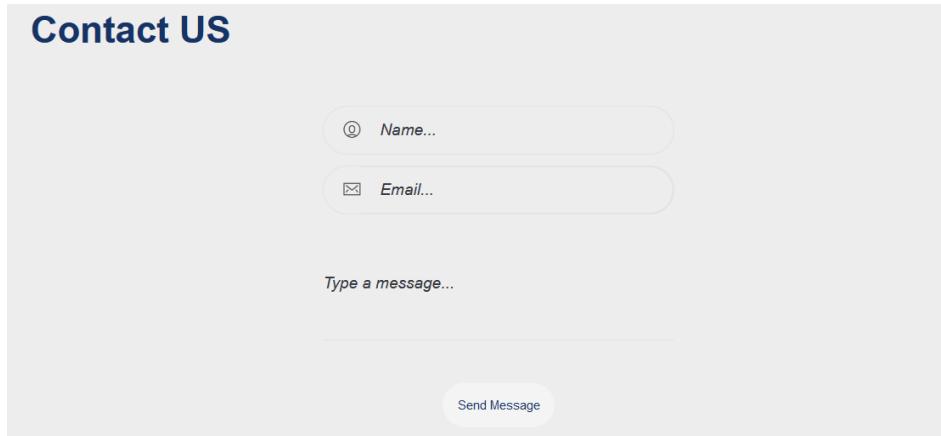
CIOP-PIB 

The Central Institute for Labour Protection – National Research Institute (CIOP-PIB) is a leading research institution in the field of occupational safety and health (OSH) in Poland. The Institute brings together extensive knowledge and experience in conducting scientific research aimed at developing new technological and organizational solutions useful in designing working conditions compliant with occupational safety and ergonomics requirements and determining scientific foundations for the development of socio-economic policies in OSH. CIOP-PIB's main activities focus on: research and development in the field of OSH, determination of exposure limits, standardization, testing and certification (machinery, manufacturing devices, personal and collective protective equipment), education and training, and dissemination of OSH solutions through publications and websites. Moreover, CIOP-PIB experts are competent in the field of EU legal requirements concerning OSH. The Institute implements the National Programme for the Improvement of safety and working conditions. Since

Figure 6 Screenshots of MANiBOT Consortium webpage

5.6 Connect

The Connect webpage enables the visitor to contact the project coordinator through a built-in form that requires a valid e-mail address provided by the visitor:



The screenshot shows a 'Contact US' form. At the top, the title 'Contact US' is displayed in a bold, dark blue font. Below the title are two input fields: 'Name...' and 'Email...', each with a placeholder text and a small icon (a person for Name and an envelope for Email). Below these fields is a large text area with the placeholder 'Type a message...'. At the bottom right of the form is a 'Send Message' button.

Figure 7 Screenshot of contact form

6 Conclusions

The MANiBOT website is well equipped to serve as the project's main portal for information, news, and publications for all of the target audiences. Its easy navigability facilitates moving around the site and encourages the visitor to visit different webpages of the project. It will be carefully maintained and regularly updated; including with content created for the site, the publications and public deliverables. New features will be added if deemed useful for its purpose. Social media will be used to draw traffic to the website and vice versa, creating synergies, in order to achieve the success values and thus the communications objectives of the project. The website-related KPIs will be carefully monitored, with progress towards achieving them, as well as the activities implemented, being reported in the Deliverable 8.3 Dissemination and Communication Activities Report v1 (M24) and D8.8 Dissemination and Communication Activities Report v2 (M42).

References

[1] “PiwikPro,” [Online]. Available: <https://piwik.pro/>. [Accessed 19 4 2024].